YOSKOBOYNIKOV, G.I

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, 1-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5207

Author: Voskoboyatkov, G. I.

Institution: None

Title: Rational Selection of Thermal Glass Treatment Procedure

Publication: Steklo i keramika, 1956, No 6, 13-15

Abstract: In glass manufacture use is made of three thermal glass treatment procedures -- annealing, hardening and semi-hardening. Annealed,

hardened and semi-hardened glass articles are characterized by different mechanical and thermal properties. In comparison with annealed, the hardened sheet glass 6 mm thick has greater resistance to static load (by 3-4 times), greater strength on impact (by 5-7 times), higher thermal resistance (by 2-3 times). Modern technology makes it possible to obtain hardened articles of different degree of

hardening, which differ in required mechanical strength and thermal

Card 1/2

CIA-RDP86-00513R001861020013-9" APPROVED FOR RELEASE: 03/14/2001

UCSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5207

Abstract: stability, and also by a specific nature of breakdown. However, by force of habit annealing remains the predominant method of thermal treatment of glass. It is recommended to revise the production technology of a number of articles, replacing annealing by hardening or semi-hardening.

Card 2/2

AUTHOR:

Yoskoboynikov, G. I.

30V/72-58-11-8/15

TITLE:

Economical Production Organization of Heat and Sound Insulating Materials From Staple Glass Fiber (Ratsional'naya

organizatsiya proizvodstva teplo-zvukoizolyatsionnykh

materialov iz shtapel'nogo steklyannogo volokna)

PERIODICAL:

Steklo i keramika, 1958, Nr 11, pp 25-28 (USSR)

ABSTRACT:

For this purpose it is necessary to have products from staple fiber with a diameter of $8-12~\mu$, mainly in the form of cotton, plates, and mats. The need for such products is very great, especially in the building of houses, ships, and refrigeration plants. The choice of economical production methods is for this reason of great importance. The author uses the vertical blast method, which yields better results and which is being used in other countries. He rejects the opinions of I. S. Shatokhin (Ref 1), V. A. Ryabov, N. A. Sheludyakov and T. M. Barbarina (Ref 2),

who used the horizontal method. He refers to the experiments of Ya. A. Shkol'nikov in Nauchno-issledovatel'skiy institut

steklyannogo volokna (Scientific Research Institute of Glass Fiber) (Ref 3), as well as those of P. A. Koryagin in

Card 1/2

SOV/72-58-11-8/15

Economical Production Organization of Heat and Sound Insulating Materials From Staple Class Fiber

Ivotskiy stekol'nyy mavod (Ivot Glass Works) (Ref 4), which show the advantages of the vertical blast method. The glass works Idichenskiy, imeni Oktyabr'skoy revolyutsii, Kostantinovskiy, "Proletariy", Leninskiy and others suggest that smaller factories he built for this production. The author of this article nevertheless holds that larger factories should be built, since they are operating more economically and at lower prices. An economical unit of measure for this material must be introduced. The author considers the weight unit introduced in the Ivot Factory to be highly undesirable, cince it promotes the manufacture of products of increased specific weight, which is not rational economically and highly undesirable. There are 4 references, which are Soviet.

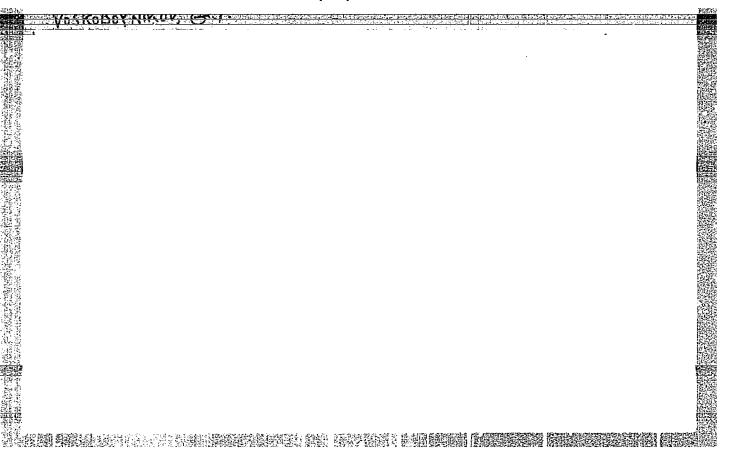
Card 2/2

VOSKOBOYNIKOV, G.I.: REZNIKOV, M.I.

Improving the manufacture of enameled glass tiles for facing. Stek.
i ker. 19 no.3:15-18 Mr '62. (MIRA 15:3)

(Enamel and enameling) (Tiles)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

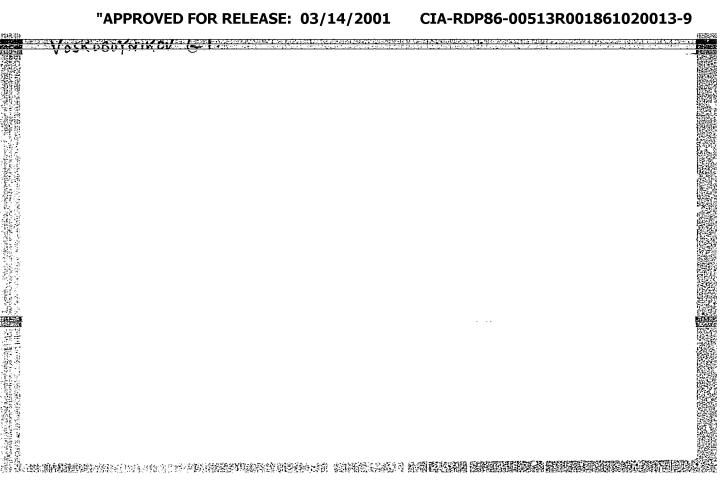


VOSKOBOYNIKOW A I

Annealing hollow glass objects. Stek. 1 ker. 14 no.4:9-13
Ap 157. (MLRA 10:5)

1. Proyektno-konstruktorskoye byuro Instituta stekla. (Glass manufacture)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"



VOSE GODING C. Mibliography

Card 1/1

Author

: Yoskoboynikov, G. M.

Title

: Critical review: Problem concerning the practical applicability of B. A. Andreyev's method for determining the depth at which sources of potential

fields lie.

Periodical

: Izv. AN SSSR, Ser. geofiz. 1, 97-99, Jan/Feb 1954

Abstract

: Recommends Andreyev's method of determining depths of exciting oddies and his method of calculating their potential and derivatives (in the region

of the known convergence of his series).

Institution : Ural Affiliate, Academy of Sciences, USSR; and Mining Geological Institute

Submitted

: December 15, 1952

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

FD-2777 USSR/Geophysics - Magnetic prospecting Pub 45 - 11/13 Card 1/2 : Voskoboynikov, G. M. Author : Criticism. Problem of determining the direction of magnetization of disturbing bodies according to the data of mag-Title netic surveying and prospecting : Izv. AN SSSR, Ser. geofiz., Sep-Oct 1955, 483-485 Periodical : In issue No 5 of this journal for 1953 was an article by D. S. Mikov, "determining the direction of magnetization of Abstract disturbing bodies from the results of magnetic survey." A serious mathematical error permitted by Mikov leads him to an incorrect conclusion concerning the possibility of applying the data by him from an integral formula to calculating the angle of inclination of the magnetization vector to cylindrical bodies of arbitrary cross section. The present writer expounds the essentials of the problem of avoiding use of these incorrect formulas in practice. He derives the formula for determining the angle of inclination of the direction of magnetization by means of a relation between the positive and negative parts of the area which is bounded by curve Z or H for a circhlar cylinder (line of dipoles);

FD-2777

Card 2/2

Abstract

namely, he derives for an elementary cylinder the parameters: (+Z) = 2m/h, $(-Z)^* - m(1+\sin g)/h$, where Z and x are considered as functions of angle θ formed at center of cross section of cylinder vertically and in direction to moving point of profile. Hence the formula for the angle of magnetization direction is (-Z)/(+Z).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOY.IKOV, G. M.; DEYEV, L.L.

Density logging of coal-prospecting test holes. Hazved.i okh. nedr 22 no.10:38-46 0 *56. (MLRA 9:12)

1. Ural'skiy filial Gorno-geologicheskogo instituta Akademii nauk SSSR.

(Prospecting) (Coal geology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

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ļ			Akademiya nauk BSSR. Ural'skiy filial. Gormo-geologieheskiy in	matitut.	1	l
			Geofizicheskiy ebornik, no. 2. (Collected Papers on Geophysics, Sverdlovsk, 1957. 207 p. Issued also as Its Trudy, vyp. 30 Errata slip inserted. 2,400 copies printed.			
			Resp. Ed.: Yu.F. Bulashevich, Loctor of Physical and Mathematics Sciences; Ed.: I.M. Demin; Tech. Ed.: L.A. Ismodenova.			
			FURFOCK: This collection of articles is intended for field geo- physicists and exploration party leaders.	-		
	• • • • • • • • • • • • • • • • • • • •		COVERAGE: These articles discuss many new techniques and some tical considerations involved in gravitational, magnetic, serelectrical and gamma radiation exploration methods. In 4 art V.H. Foncearev discusses various aspects of magnetometry; H.I. Khalevin - the study of clastic wave propagation; and G.M. Yoekoboynikov - gamma radiation. Extensive bibliographic accompany each articles.	iouis, tieles		
	•		Card 1/5			
			Thelevin, H.I. Results of Smemo-logging the Intermediate [Interval] Velocities of Propagated Elastic Mares	111		
			Thelevin, H.I., application of the Refracted Wave Correlation Method in the Search and Exploration for Coal-bearing Deposits on the Eastern Slope of the Urale	116	and a second	
			Thelevin, H.I. Velocity of Slastic Vave Prepagation in Sedimentary Formations	121		
			Khalevin, H.I. Problem of Measuring the Elastic Wave • Velocity of Rocks "in situ."	133		
			Bugaylo, Y.A. Short Nethod of Constructing the Refrecting Boundaries by the Sections Nethod	142	Harris II	
			Bulashevich, Yu.F. Equivalency of Volumetrie and Surface Radiation	146		-
<u> </u>			Togkohornikar, 6.M. Integral Equations and appreximate G-AM Formulas for Computing the Internation of George Editors	AMA-RA	DINTION	1

VOSKOBOYNIKON, G.M.

BULASHEVICE, . Yu.P.; VOSKOBOINIKOV, G.M.

Game-Tay legging in Ural coal mines and the possibility of coreless bering of a portion of exploratory berenoles. Isv. AM SSSR. Ser.geofis. no.1:109-112 Ja 57. (MIRA 10:3)

1. Ural'skiy filial AN SSSR. Gerno-geelegicheskiy institut. (Prespecting-Geephysical methods) (Ceal geology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

49-3-7/16

AUTHOR: Voskoboynikov, G.M. TITLE: Theoretical basis of selective gamma-gamma-ray logging (multiply scattered \gamma-ray logging). (Teoreticheskiye

osnovy selektivnogo gamma-gamma-karottazha).

PERIODICAL: "Izvestiya Akademii Nauk, Seriya Geofizicheskaya" (Bulletin of the Ac.Sc., Geophysics Series), 1957, No.3, pp.351-362 (U.S.S.R.)

ABSTRACT: On the basis of the approximate theory of gamma-gamma-ray logging, presented by Dyad'kin, I.G. (1), it was concluded that the recorded intensity of the scattered Y-radiation of a point source in a uniform medium depends solely on the density of the medium. It was thereby assumed that the γ-quanta have energies for which the effects of forming pairs and of photo-absorption in rocks is negligibly small compared to the effect of Compton scattering and it was also assumed that the counter is completely protected from the effects of the soft scattered rays. If these assumptions are fulfilled, experimental results are in good agreement with these theoretical conclusions. However, if the design of the equipment is such as to record soft rays for which the Card 1/4 process of photo-absorption plays an important role, the recorded intensity will also depend on the composition of the

49-3-7/16

Theoretical basis of selective gamma-gamma-ray logging (multiply scattered γ -ray logging). (Cont.)

rocks and in some cases it may be an indicator of the changes in composition. To investigate this relation qualitatively the author uses the results of an accurate solution of the kinetic equation of propagation of γ-rays in a uniform medium with uniformly distributed sources. Results obtained by the author and by Karr and Lamkin (3) are summarised in the graph, Fig.1 in which the energy of the scattered quanta are plotted on the abscissa and the spectral intensity of the scattered radiation is plotted on the ordinate. It can be seen that in the hard range the intensity of scattering is practically independent of the composition of the medium, whilst in the range of small quanta energies the intensity of radiation increases sharply to a maximum for a quantum characteristic for each individual medium and then drops rapidly to zero on further decrease of the quantum energy. With increasing atomic number of the medium, the maximum intensity decreases and the position of the maximum is shifted towards larger energy values. This feature is attributed to the effect of two contradictory processes, namely, reduction of the energy of the quanta during multiple Compton scattering and Thus, it is shown on the basis of photo-absorption.

Card 2/4

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49-3-7/16

Theoretical basis of selective gamma-gamma-ray logging (multiply scattered γ -ray logging). (Cont.)

theoretical calculations that the recorded intensity during logging by multiply scattered \(\gamma\)-rays (\(\gamma - \gamma\)-ray logging) can be made strongly dependent on small contents of admixtures of elements with high atomic numbers and, by using soft radiation sources, an appropriate instrument shell and gas filled counters with cathodes made of heavy elements, it is possible to obtain a high sensitivity to the presence of small admixtures of elements of high atomic numbers which do not affect appreciably the density of the rocks and would thus not be detected by logging methods based purely on density values. The author refers to logging based on this principle as "selective" in contrast to the known "density" method of logging by multiply scattered This method can be useful in prospecting for heavy metals, e.g. bismuth, lead, mercury, tungsten, antimony, tin and in specially favourable conditions, also molybdenum, zirconium, niobium, both in deposits and in placers. The theoretical conclusions are supported by experimental results which are plotted in the graphs, Fig. 2 and entered in Tables 1 and 2.

Card 3/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

49-3-7/16 Theoretical basis of selective gamma-gamma-ray logging (multiply scattered Y-ray logging). (Cont.)

There are 2 tables, 2 figures and 12 references, 8 of which are Slavic.

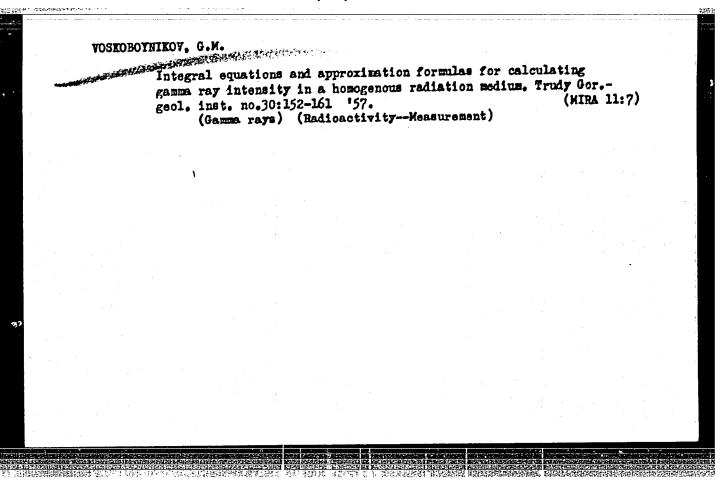
SUBMITTED: June 18, 1956.

ASSOCIATION: Ural Branch of the Ac.Sc., U.S.S.R. (Ural'skiy

Filial Akademiya Nauk SSSR).
Mining-Geological Institute. (Gorno-Geologicheskiy Institut).

AVAILABLE: Library of Congress

Card 4/4



sov/169-59-3-2326

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 3, p 39 (USSR)

Voskobovnikov, 0.M. AUTHOR:

The T-Radiation Intensity in a Uniform Emitting Medium

Tr. Gorno-geol. in-ta. Ural'skiy fil. AS USSR, 1957, Nr 30, TITLE:

PERIODICAL: pp 162 - 172

The author explains results of calculating the emission intensity to be recorded in uniform media of different composition, con-ABSTRACT:

taining equiponderant Ra or U, equiponderant Th and K. The calculations were carried out for cylindrical discharge counters, immersed in an infinite medium. The discharge counters have copper and lead cathodes and cases, which practically do not absorb the \(\)-rays but detain the \(\beta\)-radiation. Approximate formulas, which were previously proved (RZhGfiz., 1958, Nr 12, 8784), were used for the calculation. The following regulari-

ties were found: 1) The recorded radiation intensity in a dispersing medium rises with an increase in the atomic number

of the cathode material. 2) The radiation intensity decreases

Card 1/2

CIA-RDP86-00513R001861020013-9" APPROVED FOR RELEASE: 03/14/2001

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SOV/169-59-3-2326

The 7 -Radiation Intensity in a Uniform Emitting Medium

rapidly with an increase in the equivalent atomic number \bar{Z} of the medium, especially in media with a small \bar{Z} number enriched with heavy additions. 3) The specific radiation intensity (corresponding to a given unit content) of a heavy radioactive element, distributed in the medium, decreases with an increase in the content of that element. This reduction must be considered if the uranium and thorium content of the medium amounts to several tenths of one percent or more. 4) Observing γ -rays with different discharge counters does not provide a reliable determination of the nature of the emitter. 5) A variation of the recorded radiation intensity, accompanied by a variation of \bar{Z} of the medium mainly occurs because of the intensity variation of the soft, dispersed rays of less than 0.25 Mev energy, connected with an intensity decrease of the hard rays. For this reason, the relation between the soft and the hard radiation components may serve as an indicator for the degree of enrichment of the medium (rocks) with heavy metals. Bibl. 13 titles.

B.B. Migunov

Card 2/2

AUTHOR:

Yoskoboynikov, G.M.

89-4-4-5/28

TITLE:

Some Results Obtained by the Experimental Investigation of the Possibilities of the Application in Practice of Selective j-Ray Logging (Nekotoryye rezul'taty eksperimental'noy proverki vozmozhnosti prakticheskogo primeneniya selektivnogo karotazha)

PERIODICAL:

Atomnaya Energiya, 1958, Vol. 4, Nr 4, pp. 359-364 (USSR)

ABSTRACT:

Experimentally it was possible to confirm the experimental conclusions of Ref.1 as well as the possibilities and limits of selective ;—ray logging. Experiments carried out in the laboratory and in practice confirmed the possibility by means of this method to determine zones of rock with a metal content of lead, tungsten, and mercury of from 0.2-0.3% and more, and with a content of antimony and molybdenum of from 0.6-1% and more. The method is based upon the fact that y—radiation is scattered differently on mineral—containing metal than on mineral that contains no metal. In particular, measurement of soft y—scattering-radiation offers the possibility of selective separation. Particular attention must, however, be paid in order that any

Card 1/2

Some Results Obtained by the Experimental Investigation of the Possibilities of the Application in Practice of Selective preserved Logging

89-4-4-5/28

possible self-radiation of the mineral be eliminated by particularly careful screening-off. There are 3 figures, and 2 references, 1 of which is Soviet.

SUBMITTED:

November 27, 1957

1. Rock--Analysis 2. Metals--Determination 3. Gamma rays--Scattering 4. Gamma rays--Measurement

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

21(9) AUTHORS: Voskoboynikov, G. M., Kartashov, N. P. SOV/89-6-1-5/33

TITLE:

On the Problem of the Spectrometric Investigation of the W-Radiation of Natural Radiators (K voprosu o spektrometricheskikh issledovaniyakh Y-izlucheniya yestestvennykh izluchateley)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 1, pp 42 - 48 (USSR)

ABSTRACT:

Y-spectrographic methods have recently been employed in an increasing degree for the search of minerals containing uranium and thorium. In order to adapt the parameters for a y-scintillation spectroscope to actual geophysical conditions as far as possible, it is advisable theoretically to take all such effects into account as may occur both in connection with the measuring method employed and in the

In the present paper the /-spectra of uranium and thorium which are in equilibrium in mining rock are calculated. Results are graphically described. Furthermore, the secondary β-radiation spectra produced in 1 g of a NaJ(T1)-crystal per minute under the influence of the f-radiation of

uranium and thorium are graphically represented.

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

On the Problem of the Spectrometric Investigation of the Y-Radiation of Natural Radiators

sov/89-6-1-5/33

For other types of crystals, such as organic scintillators, the ordinates of the sum curves must be multiplied by the coefficient 1.25. If a CsJ(T1)-crystal is used, the coefficient of magnification is 1.28. A KJ(Tl)-crystal corresponds to the NaJ(T1) orystal. I. M. Nazarov showed that it is possible to measure the uranium and thorium content of a mineral by measuring the Y-intensities at 2 different discriminator adjustments. The problem lead to the solution of two equations with 2 unknown quantities. The two equation coefficients are calculated for different discriminator adjustments. In this way it is possible to pre-determine the optimum operation conditions of a Y-spectrometer, so that the determination of the uranium and thorium content can be carried out with an accuracy of < 20%. Other measuring methods (Refs 12 and 13) are not so accurate. There are 3 figures, 1 table, and 13 references, 10 of which are Soviet.

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

On the Problem of the Spectrometric Investigation 50V/89-6-1-5/33 of the Y-Radiation of Natural Radiators

SUBMITTED: May 10, 1958

Card 3/3

s/049/60/000/02/009/022 E131/E459

Voskoboynikov, G.M. AUTHOR:

Interpretation of the Data of Gamma Prospecting in

TITLE: Stratified Media

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1960, Nr 2, pp 263-270 (USSR)

A method is described where gamma-fields in radiating or absorbing stratified media are calculated as given by ABSTRACT: Koran and Spenser (Ref 4 and 5). The parameters of the process of gamma-prospecting are characterized by the "linear deposits" along the profiles or wells. These linear deposits can be determined from Eq (1), where $\varepsilon(z)$ - volumetric density of mineral distribution along the z-axis which coincides with the profile. The linear deposits of the radio-active elements can be found from

(Č I(z)dz Eq (2), where

is the surface

described by the z-axis and the intensity curve of the Po - density of the intersected rocks; gamma-field I(z);

Card 1/3

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5/049/60/000/02/009/022 E131/E459

Interpretation of the Data of Gamma Prospecting in Stratified Media

K - coefficient characterizing the radiation. above equations are applied to a stratified medium, the physical properties of which only vary along the z-axis. In this case, the densities are defined by Eq (3) and the gamma-field is assumed to contain a unit surface with the density of the radiating media equal to one. $j_0(z)$ is the spatial distribution of one of the components of the unit field, then all the remaining fields, characterized by the components j(z) (Eq (4) and (5)), form a surface with density of radiating matter o placed in a medium of P(z) density. In order to simplify the calculations, a variable \$ (Eq 6) is introduced instead of the coordinate z. functions $S = \phi_1(z)$ and $q^{H} = q_1(\psi_1(S))$ are defined as Eq (8) and (9) and the gamma field can be calculated from Eq (10) to (14), where H is the thickness of an equivalent layer in a uniform medium, F(Z) is the field at a distance Z from the radiating matter. An example of calculation of the intensity of gamma-radiation is shown in Fig 1, where the right-hand diagram shows the

Card 2/3

5/049/60/000/02/009/022 E131/E459

Interpretation of the Data of Gamma Prospecting in Stratified Media

curves $F(\tilde{z})$ and $F(\tilde{z}-H)$ as the dashed lines and the function $J(H,\tilde{z})$ has a continuous line. The left-hand diagram shows the curves J(H, z) calculated from Eq (14) (continuous line); the dashed line represents the lower part of the curve J(H,z).

The general formula for this type of calculation can be shown as Eq (15). This formula can be applied where densities vary only slightly and the bore has a small diameter. There are 1 figure and 5 references, 4 of which are Soviet and 1 English.

ASSOCIATION: Ural skiy filial AN SSSR Institut geofiziki (Ural Branch of the Academy of Sciences USSR, Institute of Geophysics)

SUBMITTED: April 8, 1959

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOYNIKOV, G.M.

accuracy and limits of the applicability of diffusion approximation in solving problems pertaining to the propagation of T-rays. Zhur.tekh.fiz. 30 no.1:90-95 Ja 160. (MIRA 13'8)

1. Ural skiy filial AN SSSR, Institut geofiziki. (Gamma rays)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VC3KOBOYNIKOV, C.M.

Logging tool with self-moving recording meter. Trudy Inst.geofiz. UFAN SSSR no.3:207-211 65. (MIRA 18:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOYNIKOV, G.M.

Integral transformations and the location of the singularities of the logarithmic potential. Izv. AN SSSR. Fiz. zem. no.1:76-89 '65. (MIRA 18:5)

1. Institut geofiziki Ural'skogo filiala AN SSSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

Vegaterviller, t.M. Televiller, A.V.; Schoden, H.T.

Some theoretical gravinetric problems to polars by a.C.
Malevianes and colleboration. Two. AN OFFR. Ser. gravia.
no.lisitot.2007 M 'b...

1. Institut geoficiki Grallekogo filinia AN SUSE.

YOSKOBOYNIKOV, G.M.

Carleman function and its use in solving some geophysical problems. Izv. AN SSSR. Ser. geofiz. no.11:1579-1590 N '62. (MIRA 15:11)

1. Ural'skiy filial AN SSSR, Institut geofiziki.
(Geophysical research)
(Functions)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

; ;			"Bono problem in the theory of gran-grant legging." report to be submitted for the Conference on Anolear Geophysics, Krakow, Poland, 24-30 Sept 1952.							· hropuju	<i>©</i>		
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VOSKOBOYNIKOV, G.M.

PHASE I BOOK EXPLOITATION SOV/5592

- Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnom khozyaystve SSSR. Riga, 1960.
- Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 16, 1960 in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.
- Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii
- Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel'; Card 1/11

Radioactive Isotopes and Nuclear (Cont.)

SOV/5592

Tech. Ed.: A. S. Polosina.

PURPOSE: The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvennyy komitet Seveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

Card 2/11

Radioactive Isotopes and Nuclear (Cont.)

SOV/5592

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19

development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Alekseyev, F. A. Present State and Future Prospects of Applying the Methods of Nuclear Geophysics in Prospecting, Surveying, Mining of Minerals

Bulashevich, Yu. P., G. M. Voskoboynikov, and L. V. Muzyukin. Neutron and Gamma-Ray Logging at Ore and Coal Deposits

Gordeyev, Yu. I., A. A. Mukher, and D. M. Srebrodol'skiy. Card 3/11

VOSKOBOYNIKOV, G.M.

Some problems in the theory of radiometric prospecting (in connection with E.M. Filippov's articles published in "Prikladnaia geofizika," nos. 17, 19, 24). Izv. AN SSSR. Ser. geofiz. no.1:114-119 Ja '61.

1. Akademiya nauk SSSR, Ural'skiy filial, Institut geofiziki.

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOYNÍKOV, G.M.; UTKIN, V.I.; BURDIN, Yu.B.

Spectral methods of determining the nature of anomalies in selective logging. Izv. AN SSSR. Ser. geofiz. no.8:1141-1149 Ag '61. (MIRA 14:7)

1. Akademiya nauk SSSR, Ural'skiy filial, Institut geofiziki. (Radioactive prospecting)

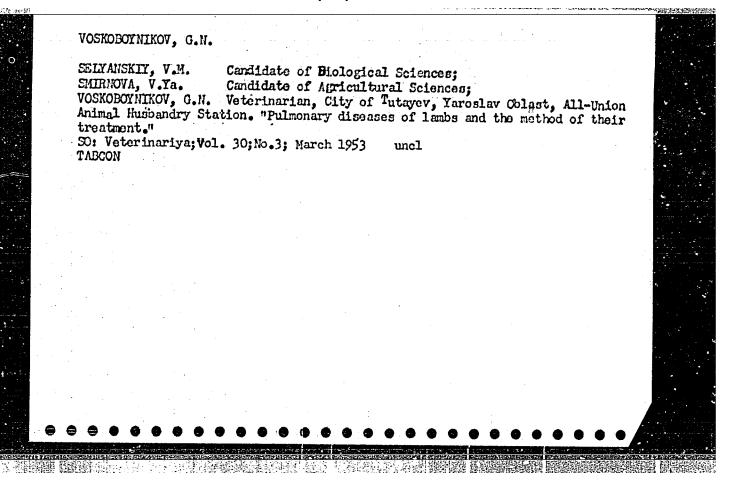
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

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- Sheep - Diseases

Pulmonary diseases of lambs and their therapy. Veterinariya 30, No. 3, 1953.

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Foreign exhibitions in Moscow. Veterinariia 41 no.1:95-97 (MIFA 18:2) Ja 165.

1. Soyuznyy trest po snabzheniyu sel'skogo khozyayatva veterinarno-zootekhnicheskim oborudovaniyem, instrumentariyem i medikamentami.

CIA-RDP86-00513R001861020013-9" APPROVED FOR RELEASE: 03/14/2001

VOSKOBOYNIKOV, G.N., veterinarnyy vrach

Apparatus for veterinary laboratories. Veterinariia 42
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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

SELYANSKII, V.M., kandidat biologicheskikh nauk; SNIRHOVA, V.Ya., kandidat sel'skokhozyaystvennykh nauk; VOSKOBOYNIKOV, G.M., veterinarnyy vrach.

Pulmonary diseases of lambs and their therapy. Veterinariia 30 (MLRA 6:3) no.):41-43 Mr '53.

1. Vsesoyuznyaa stantsiya zhivotnovodstva, g. Tutayev, Yaroslav-skoy oblasti.

- 1. SMIRNOV, L. F.; VOSKOBOYNIKOV, G. N.
- 2. USSR (600)
- 4. Sheep Diseases
- 7. Prevention and therapy of hoof rot in sheep. Pots. zhiv. 15, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

MANOYLOV S.Ve.: KANTIH, A.V.; VOSKGBOYNIKOV, G.V.; GERASIHYAK, V.G.; NIKONOVA, O.N.; SHIH! VEY-CHAON

Electrophoretic analysis of blood serum proteins in malignant tumors before and following treatment. Vop. onk. 11 no.2:74-77 (MIRA 18:7)

1. Iz TSentral'nogo nauchno-issledovatel'skogo rentgeno-radio-logicheskogo instituta Ministerstva zdravookhraneniya SSSR (direktor: Ye.I. Vorob'yev).

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Separation of liver proteins by agar electrophoresis. Biokhimiia 24 no.3:404-407 My-Je 159.

1. Central Research Roentger-Radiological Institute, Ministry of Health of the U.S.S.R., Leningrad. (LIVER, metab. proteins, agar electrophoresis (Rus))

(PROTEINS, metab. liver, agar electrophoresis (Rus))

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1. Iz otdela otdalennoy luchevoy patologii (zav. - doktor biologicheskikh nauk S.N. Aleksandrov) i otdela biokhimii (zav. - prof. S.Ye.Manoylov)
TSentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy
radiologii (dir. - zasluzhennyy deyatel' nauki prof. M.P.Pobedinskiy)
Ministerstva zdravookhraneniya SSSR, Leningrad. Predstavlena
deystvitel'nym chlenom AMN SSSR N.A. Krayevskim.

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(HEMAPOIETIC SYSTEM_RADI(GRAPHY)

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1. Department of Biochemistry, Central Research Institute of Medical Radiology, Leningrad.
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1. Otdel biokhimii TSentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR, Leningrad. (TRON IN THE BODY)

(LIVER) (IRON IN THE BODY)
(RADIATION-PHYSIOLOGICAL EFFECT)

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1. Kafedra biokhimii (zav. prof. S.Ye. Manoylov) Leningradskogo khimiko-farmatsevticheskogo instituta. (FERRITIN)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

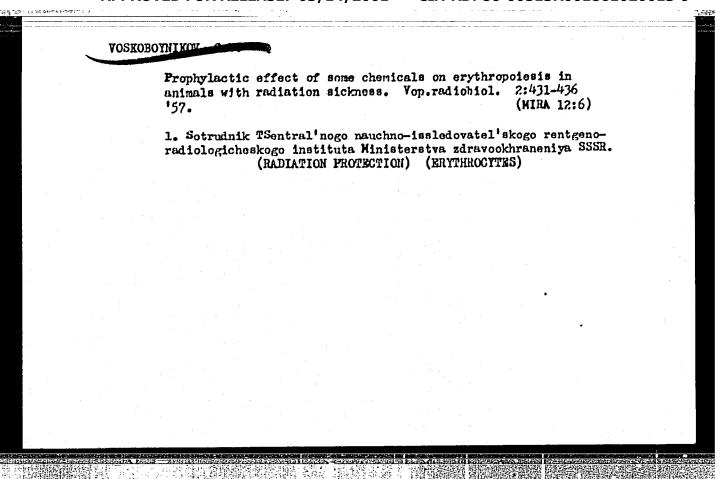
VOSKOBOYNIKOV, G.V.

VOSKOBOYLIKOV, G. V.

"Changes in the Catalose Activity of the Blood and in the Erythropoietic Function of the Organs of Erythropoiesis During the Action of Penetrating Radiation." Cand Med Sci, Central Sci-Res Roentgenoradiological Inst, Min Health USBR, Leningrad, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704,2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"



MANOYLOV, S.Ye.; CHAMIN, N.N.; DOBRYNINA, T.I.; VOSKOBOYNIKOV, G.V.

Isolation of crystalline catalase from horse erythrocytes and the

Isolation of crystalline catalase from horse erythrocytes and the study of some of its physicochemical properties. Biokhimiia 26 (MIRA 14:6)

1. Chair of Biochemistry, Chemo-Pharmaceutic Institute, Leningrad. (CATALASE) (ERYTHROCYTES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

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Remote development of anemia following single exposure to X rays. (MINA 15:2) Radiobiologiia 1 no.6:887-891 '61.

1. TSentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii, Leningrad.
(X RAYS_PHYSIOLOGICAL EFFECT) (ANEMIA)

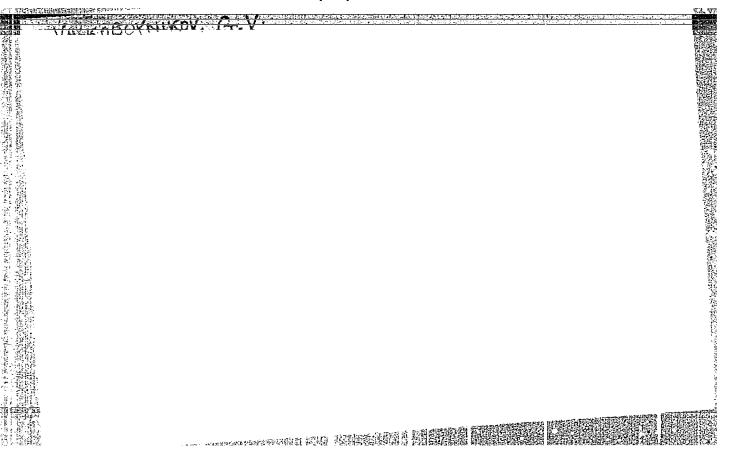
RAZUVAYEV, G.A.; RYABOV, A.V.; ZHIL'TSOV, S.F.; SOKOLOVA, V.A.; VOSKOBOYNIK, G.A.

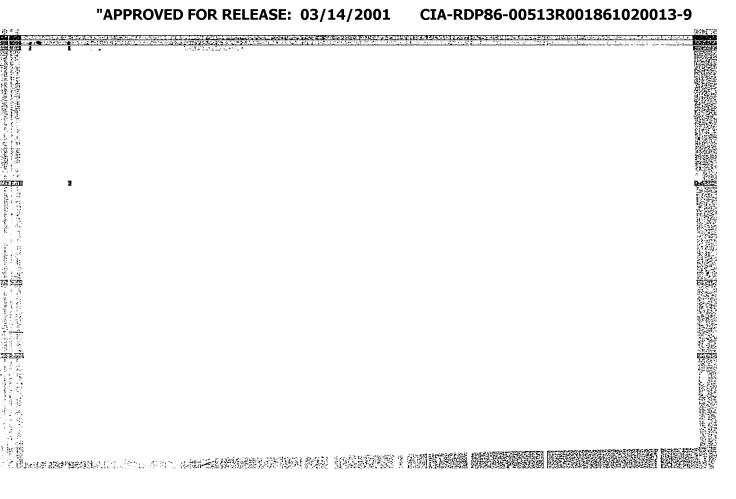
Initiating action of organomercury compounds in vinyl polymerization.

Vysokom.soed. 4 no.3:371-375 Mr 162. (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete imeni Lobachevskogo.

(Vinyl compound polymers) (Mercury organic compounds)





- 1. VOSKOBOINIKOV, I. I.
- 2. USSR (600)
- 4. Rostov Province-Bee Culture
- 7. Wide-scale experimentation in collection farm apiaries of Rostov Province. Pchelovodstvo. 30, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

Efficient choice of a method for the heat treatment of glass. Stek.i ker. 13 no.6:13-15 Je *56. (MLRA 9:8)

1. Proyektno-konstruktorskoye byuro Instituta stekla.
(Glass manufacture)

APIN, A.Ya. (Moskva); VOSKOBOYNIKOV, I.H. (Moskva); KARTASHOV, Yu.A. (Moskva); LYUTOV, V.D. (Moskva)

Calculating the polytropic indices of the explosion products of condensed explosives. PMTF no.5:117-118 S-0 '61. (MIRA 14:12) (Explosions) (Explosives)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOYNIKOV, I.M.; AFANASENKOV, A.N.

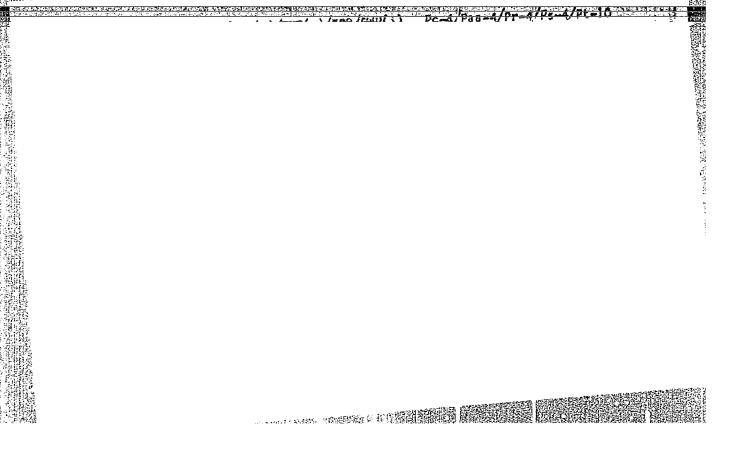
Some characteristics of detonating nitroglycerine explosives.
Vzryv. delo no.55/12:93-97 '64. (MIRA 17:10)

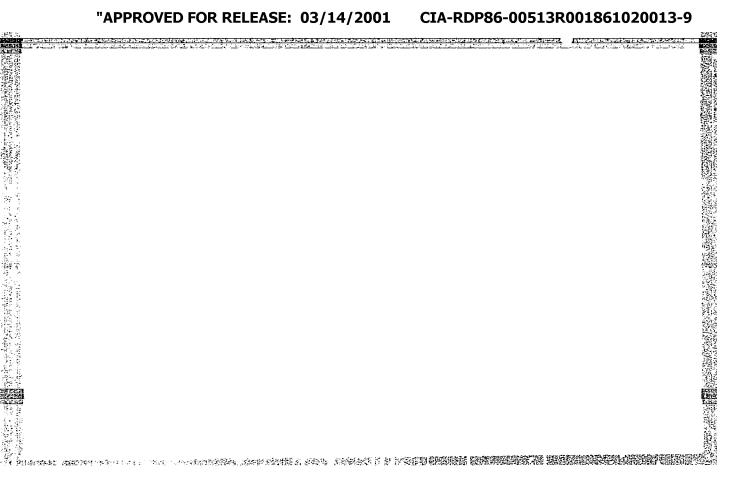
l. Institut khimicheskoy fiziki AN SSSR.

VOSKOBOYNIKOV, I.M.; DUBOVIK, A.V.; BOBOLEV, V.K.

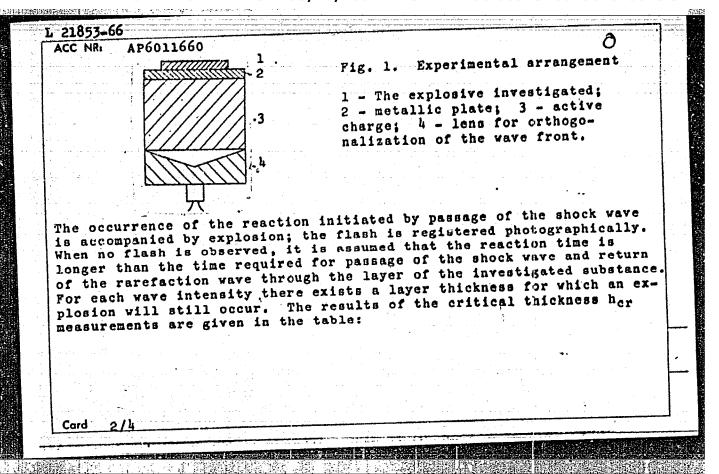
Low velocity detonation of nitroglycerin. Dokl. AN SSSR 161 no.5:
1152-1155 Ap '65.

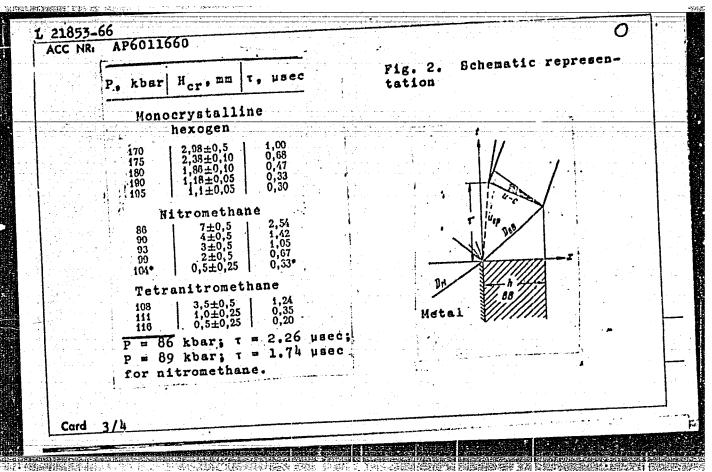
1. Institut khimicheskoy fiziki AN SSSR. Submitted October 10, 1964.





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AUTHOR: Vo	oskoboynikov,	I. M.; Bogom	olov, V. M.;	Margolin, A	. D. Apir
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ORG: Inst	oy fiziki Ake	ical Physics,	RRR)	ocicio do	
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APIN, A.Ya. (Moskva); VOSKOBOYNIKOV, I.M. (Moskva); SOSNOVA, G.S.

(Noskva)

Course of the reaction in a detonation wave of mixed explosives.

(MIRA 16:11)

PMTF no.5: 115-117 S-0 '63.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

ACCESSION NR: AT4002175

8/2996/63/000/052/0195/0201

AUTHOR: Afanasenkov, A. N.; Voskoboynikov, I. M.; Sosnova, G. S.; Parfenov, A. K.

TITLE: Combustion initiation shock wave of nitroglycerine charges and its mixtures

SOURCE: Nauchno-tekhnicheskoye gornoye obshchestvo. Vzry*vnoye delo. Sbornik, no. 52/9, 1963. Promy*shlenny*ye vzry*vchaty*ye veshchestva; detonatsiya, goreniye, deystviyo vzry*va v gornoy srede, 195-201

TOPIC TAGS: detonation, shock wave, high-speed combustion, detonation failure, high explosive, combustion initiation, shock wave combustion initiation, nitroglycerine, nitroglycerine charge, ammonite PZhV-20, ammonite PZhV-20 explosive nitroglycerine TNT mixture, nitroglycerine TNT mixture charge

ABSTRACT: Processes other than stable detonation have been observed in explosive charges, e.g. low-speed detonation, combustion inside of massive shells or holes, combustion in thin layers during drop-hammer tests of shock sensitivity, etc. These processes were investigated to help prevent detonation failures. Detonation and combustion procedures were investigated with nitroglycerine charges and with charges of sodatol (trotyl mixed with sodium chloride) across a 2-3 mm thick plexiglas wall. It was found that a detonation rate of 7650 m/sec occurred in passive nitroglycerine charges and that

ACCESSION NR: AT4002175

the sodatol-active charge detonated at rates greater than 2500 m/sec. It was concluded that combustion velocities obtained with nitroglycerine and its mixtures with ammonium nitrate are equal, and therefore, that decomposition of nitroglycerine plays a decisive role in the combustion process. Detonation failure of safety explosive charges in holes was also studied. It was concluded that detonation failures in safety explosives are more probably between cartridges than in one continuous charge and that at charge densities of 1.5 g/cc and over, detonation transmission from cartridge to cartridge is improbable. Further, the burning out of charges of safety explosives can be attributed to the initiation of combustion by shock waves by the transmission of detonation from cartridge to cartridge. The authors suggested that any sensitizer for safety explosives should be investigated for a tendency to burn out under the effect of shock waves. Orig. art. has:

ASSOCIATION: IKHFAN SSSR

SUBMITTED: 00

DATE ACQ: 10Dec63

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SUB CODE: WA

NO REF SOV: 002

OTHER: 001

Cord . 2/2

S/020/63/149/003/028/028 B192/B102

AUTHORS:

Sosnova, 3. S., Voskoboynikov, I. M., Dubovik, A. V.

TITLE:

The luminescence of the front of a low-rate detonation in

nitroglycerin

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 3, 1963, 642-643

TEXT. The course of detomations of the rate $D=2.01\pm0.1$ km/sec in cylinarical nitrigiventre charges of 10 - 40 pm diateter were observed photographically. After ignition of the difference a tire charter becomes visible in the detunation front in a tube of plexiglas, Anich waves are emitted towards the Will of the tube. The Fraction is That intensive in the layers near the wall. At the center of the charge the flow in these layers evertages the front, thereby foreing a detination front concave in relation to the direction of propagation Axperience with tubes of materials having different elastic and acoustic properties show a damping of the detonation if the sonic velocity in the material is smaller than 2.0 km/sec (paraffin, cork, leaf). If plexiglas tubes are replaced by thick-walled steel tubes the reaction process is accelerated and the dark channel disappears. Also the thickness of the card 1/2

The luminescence of the frat of a ...

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tube is important for the continuous course of the detonation. For plexiglas of 0.1 mm thickness detonations of 2 km/sec cannot propagate themselves, whils' for thicknesses larger than 2 mm a continuous course of the detonation is possible. There are 3 figures.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR

(Institute of Chemical Physics of the Academy of Sciences

USSR)

PRESENTED:

August 3, 1962, by V. M. Kondrat'yev, Academictan

SUBMITTED:

July 30, 1962

SOSNOVA, G.S.; VOSKOBOYNIKOV, I.M.; BRUSNIKINA, V.M.; NOVIKOV, S.S.; APIN, A.Ta.; LAPSHINA, Z. Ia.

Comparative data on the physicochemical properties of some liquid explosives. Izv. AN SSSR Otd.khim.nauk no.2:351-352 F 162. (MIRA 15:2)

1. Institut khimicheskoy fiziki AN SSSR i Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Explosives)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

38588 \$/081/62/000/010/069/085 B168/B180

11.8700

AUTHORS: Voskoboynikov, I. M., Sosnova, G. S.

TITLE: Detonation of explosive compositions

ALEVANIES SECTION SE

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 501, abstract 10L439 (Zh. prikl. mekhan. i tekhn. fiz. po. 4, 1961,

133 - 135)

TEXT: The rate of detonation and the temperature at the front of the blast wave were measured for liquid and solid explosive dompositions. The data were compared with results of calculations based on the assumption that the composition of the explosion products is the same in the blast wave from composite explosives as in that from a simple one with the same elementary composition as the mixture. In the case of liquid explosive mixtures (tetranitromethane with hexane, nitromethane, nitrobenzene, or dinitrotoluene; nitroglycerin with methyl alcohol or nitromethane) a large measure of agreement was found between the calculated and experimental values, which indicates that the hypothesis is correct. A comparison of the experimental detonation speeds in the case of heterogeneous explosive compositions (suspension of carbon black and trotyl in tetranitromethane, Card 1/2

Detonation of explosive compositions

S/081/62/000/010/069/085 B168/B180

trotyl/hexogen 50/50, pentolite 50/50, ammatol 50/50) with calculated results shows that each of the explosive components of the mixture has time to decompose in the blast wave, although in most mixtures the decomposition products of the individual components do not react among themselves. Greater dispersion of the components of the mixture favors reaction between the decomposition products. [Abstracter's note: Complete translation.]

J.

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

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also 3108,3008

8/207/61/000/005/014/015 D237/D303

11.8200 AUTHORS:

Apin, A.Ya., Voskoboynikov, I.M., Kartashiv, Yu.A., and Lyutov, V.D. (Moscow)

TITLE:

Determining polytropic indices of products of the

explosion of condensed explosives

PERIODICAL:

Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,

no. 5, 1961, 117 - 118

TEXT: Adiabatic of the explosion products in the front of blast wave can be described by

> $p = Ar^{-n}$ (1)

where n depends on the composition of products, their pressure and temperature. Using the data of A.N. Dremin and P.F. Pokhil (Ref. 1: DAN SSSR, 1959, v. 128, no. 5), A.Ya. Apin and I.M. Voskoboynikov (Ref. 2: PMTF, 1960, no. 4) and A.N. Dremin and G.A. Adadadurov in (Ref. 3: Izv. AN SSSR, OKHN, 1960, no. 6) the authors show that in a wide interval of temperature and pressure, polytropic index of Card 1/2

Determining polytropic indices ...

31254 S/207/61/000/005/014/015 D237/D303

explosion products can be represented as a sum of polytropic indices of components of the products of explosion, i.e.

$$n^{-1} = \sum \beta_1 n_1^{-1} \tag{3}$$

where $\beta_{\underline{i}}$ - molar fraction of the component. There are 1 figure and 4 Soviet-bloc references.

SUBMITTED: June 15, 1961

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Detonation of mixtures of explosives. PMTF no.4:133-135 J1-Ag (MIPA 14:10)

(Detonation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

APIN, A.Ya. (Moskva); VOSKOBOYNIKOV, I.M. (Moskva)

Calculating the parameters of the detonation wave for condensed explosives. PMTF no.4:54-55 N-D '60. (MIRA 14:7)

(Shock waves)

(Explosives)

33595

11.1260 11.2120 2406

S/207/61/000/004/006/012 E032/E514

AUTHORS:

Voskoboynikov, I.M. and Sosnova, G.S. (Moscow)

TITLE:

Detonation of mixtures of explosive materials

PERIODICAL:

Akademii nauk SSSR. Siberskoye otdeleniye. Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki.

no.4, 1961, 133-135

TEXT: This is a continuation of work reported by the first of the present authors and A. Ya. Apin (Ref.1: PMTF, 1960, No.4; Ref.2: DAN SSSR, 1960, v.130, No.4). In the present paper the authors report experimental results obtained in a study of the effect of the chemical structure and the physical state of the components in explosive mixtures on the explosion products within the detonation wave front. Measurements were made of the detonation velocity and the temperature of the detonation wave front and these were compared with theoretical calculations. The velocity was measured by an ionization method and the temperature by an electron-optical method. The apparatus employed is Table 1 gives the detonation-wave illustrated in Fig.1. parameters for liquid explosive solutions and Table 2 gives these Card (1/K)

Detonation of mixtures of ... S/207/61/000/004/006/012 parameters for heterogeneous mixtures. In these tables ρ is the density in g/cm² of the explosive mixture, D₁ is the detonation velocity in km/sec and T₁ is the temperature of the wave front in κ

Explosive	6 °, "	D ₁ ,	т,,	Table 1
50% CH ₃ NO ₂ + 50% C(NO ₂) ₄ 65% CH ₃ NO ₂ + 35% C(NO ₂) ₄ 81% CH ₃ NO ₂ + 19% C(NO ₂) ₄	g/cm ³ 1.34 1.29	7.15 7.30	°K 4650 4600	
81% $CH_{3}^{2}NO_{2}^{2} + 19\% C(NO_{2}^{2})_{4}^{4}$ 10% $C_{3}^{6}H_{14}^{14} + 90\% C(NO_{2}^{2})_{4}^{4}$ 14% $C_{3}^{6}H_{14}^{14} + 86\% C(NO_{2}^{2})_{4}^{4}$ 18% $C_{3}^{6}H_{14}^{14} + 82\% C(NO_{2}^{2})_{4}^{4}$	1.21 1.43 1.40	6.80 6.90 7.40	4400 4900	/ ·
$24\% C_{6}^{H_{5}NO_{2}} + 76\% C(NO_{2})_{4}$ $32\% C_{6}^{H_{5}NO_{2}} + 68\% C(NO_{2})_{4}$ $45\% C_{6}^{H_{5}NO_{2}} + 55\% C(NO_{2})_{4}^{NO_{2}}$	1.38 1.52 1.48 1.42	7.00 7.90 7.50 6.80	3900 5000	
$15\% \text{ C}_{1}^{9}\text{NO}_{2}^{2} + 85\% \text{ C}(\text{NO}_{2}^{2})_{4}^{4}$ $10\% \text{ CH}_{3}\text{OH} + 90\% \text{ C}_{3}\text{H}_{5}\text{N}_{3}^{2}\text{O}_{9}^{4}$ $29\% \text{ CH}_{3}^{3}\text{NO}_{2} + 71\% \text{ C}_{3}^{2}\text{H}_{5}^{2}\text{N}_{3}^{2}\text{O}_{9}^{2}$	1.61 1.48 1.48	7.05 7.25	3900	· .
Card 2442	T.TO	7.30	4300	

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

Detonation of mixtures of ...

33595 \$/207/61/000/004/006/012 E032/E514

Explosive	°, g/cm ³	D ₁ , kg/sec		Table 2
$\frac{20\% \text{ C}_7 \text{H}_5 \text{N}_3 \text{O}_6 + 80\% \text{ C}_7 \text{N}_2 \text{O}_4}{15\% \text{ C}_7 + 90\% \text{ C}_7 \text{N}_2 \text{O}_4}$	1.64	6.80		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.64	6.30		
50% C ₃ H ₅ N ₃ O ₆ + 50% C ₇ H ₅ N ₃ O ₆	1.64	6.30		
50% C ₅ H ₈ N ₄ O ₁₂ + 50% C ₇ H ₅ N ₃ O ₆	1.68	7.65	* .	
$50\% C_5^{H_8}N_4^{}O_{12} + 50\% C_7^{H_5}N_3^{}O_6$ $50\% C_7^{H_5}N_3^{}O_6 + 50\% NH_4^{}NO_3^{}$	1.65	7.45		
50% C ₇ H ₅ N ₃ O ₆ + 50% NH ₄ NO ₃ 58% C ₃ H ₆ N ₃ O ₆ + 42% NH ₄ NO ₃	1.50	6.30		/
58% C3H6N3O6 + 42% NH4NO3	1.73	8.00		

Acknowledgments are expressed to V. S. Smelov for assistance in the experiments. There are 1 figure, 2 tables and 2 Soviet-bloc references.

SUBMITTED: June 10, 1961

Card 3//4

33983 5/062/62/000/002/008/013 B117/B138

11.1265 11.1260 AUTHORS:

Sosnova, G. S., Voskoboynikov, I. M., Brusnikina, V. M., Lapshina, Z. Ya., Novikov, S. S., and Apin, A. Ya.

TITLE:

Comparative data on the physical and chemical properties of

some liquid explosives

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 2, 1962, 351-352

TEXT: The characteristics of some liquid explosives were compared with the aim of finding out what effect the chemical structure has upon them: kcal/M

The following data were compared:

The following data were comp	a/cm ²	D,m/sec	T, OK	Qexpl, cal/g	form	\mathcal{X}
butynediol-1,4-dinitrate butanediol-1,4-dinitrate	1.42 1.31 1.36	7100 6600 7300 7400	4000 3050 3800 3450	1290 1210 1190 1180	-6.4 65.5 25.8 53.6	VI
dinitroxy ethyl nitroamine (nTNA liquid melt)	1040				. *	

CIA-RDP86-00513R001861020013-9" APPROVED FOR RELEASE: 03/14/2001

33983 S/062/62/000/002/008/013 B117/B138

Comparative data on the ...

The detonation velocity D was determined optically and by an ionization method with an accuracy of ± 100 m/sec. The detonation temperature (T, OK) was measured by the electron-optical chromatographic method (error of measurement ± 150 K). Homogeneous liquid explosives were used in order to eliminate the influence of grain size and porosity of the charge. The formation heats Q indicated above were calculated from the binding energy and atomization heat (Ref. 3: Ya. K. Syrkin and M. Ye. Dyatkina, Khimicheskaya svyaz' i stroyeniye molekul (Chemical binding and structure of molecules), Goskhimizdat, M.-L., 1946; Ref. 4: F. A. Baum, K. P. Stanyukovich, and B. I. Shekhter, Fizika vzryva (Physics of explosion), Fizmatizdat, M., 1959). The explosion heat Q was calculated on the assumption that the disintegration from explosion is governed by the Brinkley-Wilson rules, i.e., that the hydrogen in the detonation wave is always completely oxidized to water, and that CO, is formed only after the carbon has completely oxidized to CO. composition of the explosion products was found not to depend on the chemical structure of the substance but on the elemental composition of the molecules (C, H, N, O). There are 1 table and 5 references:

Card 2/3

33983 S/062/62/000/002/008/013 B117/B138

Comparative data on the ...

3 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute

of Chemical Physics of the Academy of Sciences USSR). Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: January 31, 1961

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

SCSNOVA, G.S.; VOSKOBOYNIKOV, I.M.; DUBOVIK, A.V.

Glow of the low-velocity detonation front in nitroglycerin.
Dokl.AN SSSR 149 no.31642-643 Mr '63. (MIRA 1614)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom
V.N.Kondrat'yevym. (Nitroglycerin) (Detonation)

PADIVENKO, I.K., insh., VOSKOYNIKOV, M.A., insh.

Machinery and automatic devices designed by a group of factroy workers. Stroi.mat. 5 no.7:26-30 Jl 159. (MIRA 12:10) (Irpen-- Brick industry-Equipment and supplies)

AUTHORS:

Voskoboynikov, H. I., Kubantsev, A. P.,

76-32-2-33/38

Prokhorov, V. A.

TITLE:

A Calorimetric Apparatus for the Heasurement of Heat Processes

(Kalorimetricheskaya ustanovka dlya izmereniya dlitel'nykh

teplovykh protsessov)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 2, pp. 460-464

(USSR).

omikor yrik 20, 1716.

ABSTRACT:

A calorimetric apparatus is described. It serves for the measurement of the heat effects of chemical and physical-chemical longduration processes. It consists of a thermostat TC-24 in a diffe= rential calorimeter and the electronic circuit connected with it. The thermostat in which the calorimeter is placed makes it possible to select the temperature for the experiment within the limits of from 25° to 150°C and to maintain this temperature with a constant accuracy of $\pm 0,1°$ C. The calorimetric sensitivity of the apparatus $\delta q = 2,8°10^{-4}$ cal/hour. In order to check the measurement accuracy an electric calibration of the apparatus was carried out. The de-

Card 1/2

viation in the measurement of the total value of the heat emitted

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

A Calorimetric Apparatus for the Measurement of Heat Processes of Duration

76-32-2-33/38

was $0.05^{\circ}/\circ$. In order to illustrate the operation of the apparatus a measurement of the heat emission of the radioactive isotopes P^{32} and Sb^{122} was carried out. The difference in heat emission between the calculated values and those obtained by the authors was 1.7 cal/hour curie. This value corresponds to the γ radiation energy not retained in the calorimeter. There are 3 figures, 2 tables, and k references, 2 of which are Soviet.

SUBMITTED:

October 18, 1957.

AVAI. ADDI

1. Calorimeters Design 2. Calorimeters -- Performance

3. Calorimeters--Test results

Card 2/2

VOSKOBOYNIKOV, M.I.; KUBANTSEV, A.P.; PROKHOROV, V.A. (Moskva)

Calorimetric arrangement for measuring heat processes of prolonged duration [with summary in English]. Zhur.fiz. khim.
32 no.2:460-464 F '58.

(Calorimetry)

(MIRA 11:4)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOYNIKOV, M.M., mladshiy nauchnyy sotrudnik

Transfusion of chloride plasma in the combined therapy of burns.

Ortop.travm.i protes. 20 no.9:61-65 S 159. (MIRA 13:2)

1. Iz otdela konservirovaniya krovi (rukovoditel - prof. V.N.
Krainskaya-Ignatova) Ukrainskogo nauchno-issledovatel skogo instituta perelivaniya krovi i neotlozhnoy khirurgii (direktor - kand.
med.nauk Yu.N. Orlenko) i kafedry fak. i gospit. khirurgii (zaveduyushchiy - prof. K.I. Pikin) sanitarno-gigiyenicheskogo i pediatricheskogo fakul tetov Khar kovskogo meditsinskogo instituta.

(PIASMA SUBSTITUTES ther.)

(BURNS, ther.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

ACCESSION NR: AR4015684

8/0081/63/000/023/0129/0129

SOURCE: RZh. Khimiya, Abs. 23G68

AUTHOR: Suvorovskaya, N. A.; Voskresenskaya, M. M.

TITLE: Determination of lithium in products containing both lithium and beryllium

CITED SOURCE: Nauchn. soobshch. In-t gorn. dela im. A. A. Skochinskogo, v. 16, 1962,

TOPIC TAGS: lithium, lithium determination, quantitative analysis, beryllium, colorimetry, berillon ZIRYe A, toron

TRANSLATION: A method is described for the determination of Li and Be in Li-Be ores, consisting of the separation of Be as beryllium hydroxide, followed by the colorimetric determination of Be and Li using berillon ZIRYe A for beryllium and toron for lithium. A 0.2 g sample is heated for 30-40 minutes at 900-1000C; after cooling and treatment with a mixture of 10 ml HF+5 drops H₂SO₄ +3 drops H_NO₃, the mixture is evaporated, mixed with water and again evaporated to dryness. The residue, is heated for 1-2 minutes to a

1/2 Card

Card 2/2

03/14/2001

CIA-RDP86-00513R001861020013-9

VCSKOBOYNIKOV, M.Ye.: SATPAYEV, K.I., akademik.

Cretaceous deposits of the western Aral region. Dokl.AN SSSR 90 no.5:

851-854 Je 153.

1. Institut geologicheskikh nauk Akademii nauk Kazakhskoy SSR (for Voskoboynikov). 2. Akademiya nauk SSSR (for Satnayev).

(Aral Sea Region-Geology, Stratigraphic)

(MIRA 6:5)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020013-9"

VOSKOBOYNIKOV, H. YE.

VOSKOBOYNIKOV, M. YE. -- "The Geological Structure of the Southeastern Part of the Aral-Kazalinsk Depression." Acad Sci Kazakh SSR, Institute of Geological Sciences, Alma-Ata, 1956. (Dissertation for the Degree of Candidate of Geologicomineral Sciences)

SO: Knizhnava Letopis' No 43, October 1956, Noscow

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861020013-9

VUSKOBOYNIKOV, M. YE.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry, D

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 732

Author: Voskoboynikov M

Institution: Academy of Sciences Kazakh SSR

Title: Deposit of Gypsum Clay in Kzyl-Ordin Oblast

Original

Periodical: Vestn. AN Kaz. SSR, 1956, No 5, 62-67

Abstract: The chemical composition and technological characteristics of gypsum clay (GC) from neogenic deposits in the Tuzbulak brachyanticline have been determined; thermograms of the mineral have also been recorded. The CaSO4 2H20 content of the ore varied between 59.0 and 91.7%. 'A stratigraphic section, profile, and map of the deposit are given, together with a table showing the results of three complete chemical analyses on the powdered and needle-like fibrous varieties of GC. The author agrees with V. G. Sagunov. (Referat Zhur - Khimiya, 1956, 64755) in that the GC was formed by the crystallization of Ca sulfate and carbonate during the evaporation of ground water under arid climatic

Card 1/2

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